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tained by distillation in close vessels, from the red oxide of zinc found in the northern part of New Jersey.

These communications gave rise to a discussion, in which Messrs. Trego, Fraley, Justice and Frazer took part.

Pending nominations, from Nos. 226 to 231, inclusive, were read.

Stated Meeting, October 19.

Present, twenty-two members.

Dr. PATTERSON, President, in the Chair.

A letter was read:—

From the Royal Institution of London, dated Albemarle street, 31st August, 1849, acknowledging the receipt of Nos. 1, 2, 4, 8, 27, and 42, of the Proceedings of this Society.

Also, a printed circular from a Committee of the American Association for the Advancement of Science, dated 1st October, 1849, in relation to the establishment and publication of an *Astronomical Journal* in this country.

The following donations were announced:—

FOR THE LIBRARY.

Journal of the Royal Asiatic Society of Great Britain and Ireland.

Vol. XI. Part 1, and Vol. XII. Part 1. London, 1849. 8vo.—

From the Society.

Quarterly Journal of the Geological Society of London. No. 19.

Aug. 1, 1849. London. 8vo.—*From the Society.*

Annals and Magazine of Natural History, including Zoology, Botany, and Geology. Vol. IV. No. 21. Sept. 1849. London. 8vo.—

From Sir William Jardine.

Proceedings of the New Jersey Historical Society. Vol. IV. No. 2.

Newark, 1849. 8vo.—*From the Society.*

The American Journal of the Medical Sciences. Edited by Isaac Hays, M.D. No. 36. New Series. Oct. 1849. Philadelphia.

8vo.—*From Dr. Hays.*

The Medical News and Library. Vol. VII. No. 82. Oct. 1849.

Philadelphia. 8vo.—*From Lea & Blanchard.*

The Swedish Church in America. A Discourse delivered before the

Historical Society of the American Lutheran Church, May 18, 1848. By William M. Reynolds, A.M. Professor in Pennsylvania College, Gettysburg, Pa. 8vo.—*From Professor M. L. Stoeever, of Gettysburg.*

The Study of Natural History. An Address delivered before the Linnæan Association of Pennsylvania College, at the Annual Commencement, Sept. 19, 1849. By Daniel M. Smyser, A.M. Gettysburg, 1849. 8vo.—*From the same.*

The Pennsylvania Journal of Prison Discipline and Philanthropy. Vol. IV. No. 4. Oct. 1849. Philadelphia. 8vo.—*From the Philadelphia Prison Society.*

The African Repository and Colonial Journal. Vol. XXV. No. 10. Oct. 1849. Washington. 8vo.—*From the American Colonization Society.*

Mr. Justice mentioned to the Society, that within a few weeks past he had had placed in his hands for examination, a telescope, the object-glass of which had been affected by the deterioration before alluded to by him. In this case the impression from one of the lenses of the object-glass had been communicated to the other lens.

Professor Henry communicated some experiments which he had made upon the subject of the radiation of heat. It occurred to him, from the constitution of the atmosphere, that if the air was a good radiator of heat, the higher temperatures below, and lower above, could not be permanent. By placing a thermo-multiplier before a flame, interposing a screen of wood with a hole through it, radiation from the flame was perceived, becoming less as the flame was lowered, and still existing, though in small quantities, from the heated air above the flame. Prof. H. also repeated the experiments upon the radiation of heat from flames. The radiation of heat from the flame of hydrogen is but small, as is its radiation of light. This radiation is much increased by placing a solid in the flame. This is in accordance with Count Rumford's assertion, that clay-balls placed in the fire increased the amount of heat. Prof. Henry also mentioned some experiments which he had made some years ago upon the reflection of heat from ice with a concave mirror of that substance.

The stated business of the meeting, the balloting for members, was then proceeded with.

On motion of Professor Frazer, the Librarian was directed to subscribe, on the part of the Society, to the *Astronomical Journal*, which it is proposed to publish in Boston, under the editorship of B. A. Gould, jr.

The other business of the meeting having been concluded, the ballot-boxes were opened, and the following named gentlemen were declared duly elected members of the Society.

JOHN GOODSIR, Esq., of Edinburg.

JOHN HUGHES BENNET, M.D., of Edinburg.

FRANCIS KIERNAN, Esq., of London.

A. A. GOULD, M.D., of Boston.

JOSEPH LEIDY, M.D., of Philadelphia.

W. S. W. RUSCHENBERGER, M.D., U. S. Navy.

Stated Meeting, November 2.

Present, fourteen members.

Dr. PATTERSON, President, in the Chair.

Dr. Ruschenberger, a newly elected member, was introduced, and took his seat.

Letters were read:—

From Dr. Augustus A. Gould, dated Boston, 27th October, and from Dr. W. S. W. Ruschenberger, dated Philadelphia, 22d October; respectively acknowledging the receipt of notice of their election as members of this Society;—

From the Literary and Philosophical Society of Manchester, dated Society's Rooms, George street, 3d October, 1849, acknowledging the receipt of Nos. 41 and 42 of the Proceedings of this Society:—

From the Regents of the University of the State of New York, dated Albany, 27th October, 1849: and,—from the American Antiquarian Society, dated Worcester, Mass., 27th October, 1849, both acknowledging the receipt of No. 43 of the Proceedings of this Society.